

The 3rd Basic

Adequate fluid intake

Frequent voiding

Gantanol
(sulfamethoxazole)
B.I.D.

4 tablets (0.5 Gm each) STAT—then
2 tablets B.I.D. for 10-14 days

Basic therapy with convenience for acute nonobstructed cystitis

- Effective against susceptible *E. coli*, *Klebsiella-Aerobacter*, *Staph. aureus*, *Proteus mirabilis*, and, less frequently, *Proteus vulgaris*

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Acute, recurrent or chronic nonobstructed urinary tract infections (primarily pyelonephritis, pyelitis and cystitis) due to susceptible organisms. **Note:** Carefully coordinate *in vitro* sulfonamide sensitivity tests with bacteriologic and clinical response; add aminobenzoic acid to follow-up culture media. The increasing frequency of resistant organisms limits the usefulness of antibacterials including sulfonamides, especially in chronic or recurrent infections. **Contraindications:** Sulfonamide blood levels as variations may occur; 20 mg/100 mL should be maximum total level.

Contraindications: Sulfonamide hypersensitivity; pregnancy at term and during nursing period; infants less than two months of age.

Warnings: During pregnancy has not been established. Sulfonamides should not be used for Group A beta-haemolytic streptococcal infections and will not eradicate or prevent sequelae (rheumatic fever, glomerulonephritis) of such infections. Deaths from hypersensitivity reactions, agranulocytosis, aplastic anemia and other blood decreases have been reported and early clinical

signs (sore throat, fever, pallor, purpura or jaundice) may indicate serious blood disorders. Frequent CBC and urinalysis with microscopic examination are recommended during sulfonamide therapy. Insufficient data on children under six with chronic renal disease.

Precautions: Use cautiously in patients with impaired renal or hepatic function, severe allergy, bronchial asthma, in glucose-6-phosphate dehydrogenase-deficient individuals in whom dose-related hemolysis may occur. Maintain adequate fluid intake to prevent crystalluria and kidney stone formation.

Adverse Reactions: *Blood dyscrasias:* (agranulocytosis, aplastic anemia, thrombocytopenia, leukopenia, hemolytic anemia, anemia, purpura, hypoprothrombinemia and methemoglobinemia); *skin reactions* (erythema multiforme, skin eruptions, epidermal necrolysis, urticaria, skin sickness, pruritus, xeroderma, erythema, urticaria, icteroid reactions, periorbital edema, conjunctivitis, anaphylactoid reaction, photosensitization, dermatitis, contact and allergic reactions); *gastrointestinal reactions* (nausea and allergic abdominal pain, hepatitis, diarrhea, anorexia, proctitis and stomatitis); *cardiac reactions* (hepatocellular hepatitis, myocarditis, pericarditis, congestive heart failure, peripheral neuritis, mental depression, convulsions, ataxia, hallucinations, dizziness, headache, vertigo, tinnitus, blurred vision, diplopia, and photophobia).


nations, linnitus, vertigo and insomnia); *miscellaneous reactions* (drug fever, chills, toxic nephrosis with oliguria and anuria, periferitis nodosa and L.E. phenomenon). Due to certain chemical similarities with some glycolergs, diuretics (acetazolamide, the zideas) and oral hypoglycemic agents, sulfonamides have caused rare instances of galter production, diuresis and hypoglycemia as well as thyroid malignancies in rats following long-term administration. Crossed reactions with other drugs are rare.

Dosage: Systemic sulfonamides are contraindicated in infants under 2 months of age (except adjunctively with pyrimethamine in congenital toxoplasmosis).

Usual adult dosage: 2 Gm (4 tabs or teasp.) initially, then 1 Gm b.i.d. or t.i.d. depending on severity of infection.

Usual child's dosage: 0.5 Gm (1 tab or teasp.)/20 lbs of body weight initially, then 0.25 Gm/20 lbs b.i.d. Maximum dose should not exceed 75 mg/kg/24 hrs.

Supplied: Tablets, 0.5 Gm sulfamethoxazole; Suspension, 0.5 Gm sulfamethoxazole/teaspoonful.



Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

Med Trib 27

Medical Tribune

Vol. 16, No. 27

world news of medicine and its practice—fast, accurate, complete

—and Medical News—

Wednesday, July 23, 1975

'Double Trouble' Theory **Glucagon Role** **In Diabetes** **Is Expounded**

By FRANCES GOODNIGHT

New York—The new "double trouble" hypothesis of diabetes and its implications for changes in patient treatment were assessed here by Dr. Roger H. Unger, of Southwestern Medical School, whose work has been crucial to the concept of diabetes as a hormonal abnormality—glucagon excess as well as insulin deficiency.

The complex issue of the relationship of the alpha-cell and beta-cell abnormality in inherited human diabetes is still unsettled, Dr. Unger said in the Banting Memorial Lecture at the annual meeting of the American Diabetes Association.

What has been definitely established, in his view, is that the quantities of exogenous insulin required to reduce the hyperglucagonemia in human diabetes exceed the amounts secreted in normal people; and that glucagon suppression by somatostatin "can achieve a level of glucoregulation with only a fraction of the insulin dose otherwise required."

Citing recent studies in juvenile diabetes, Dr. Unger noted that glucagon

Continued on page 2

After 'Birth Without Violence,' Does a Baby Smile?



"Birth without violence" produces an infant who can smile on the first day of life as Dr. Lebovitz illustrates by gentle head-stroking.

By MICHAEL HERRING
Medical Tribune Staff

NEW YORK—Can a baby smile on the first day of life? Child psychologists say no. Dr. Ervin E. Nichols, director

Convention impressions by Ida Libby Dengrove



Ida Libby Dengrove, a doctor's wife who is a noted TV artist, again draws

Stanford Estimate:
Up to 3,100,000
Have Ankylosing
Spondylitis in US

Medical Tribune Report
NEW ORLEANS—As many as 3,100,000 Americans may have undiagnosed ankylosing spondylitis, Stanford University rheumatologists believe.

A study further suggests that the disease is nearly as common among women as men. In contradiction to the previously-accepted ratio of 1 to 10,

Continued on page 16

making rounds at press time

PUBLIC CONFIDENCE in doctors is plummeting, according to a new Harris poll. Though M.D.s still rated the most honest group, only 45% of Americans now have a "great deal" of confidence in them, compared with 72% in 1966. "High confidence" was given by 51% to garbage men, since "at least we know whether or not they take away the trash."

6 not they take away, the...

ence,' Does a Baby Smile?



...bathed baby gives the infant a lukewarm bath, reminiscent of utero

Dr. Leboyer immediately gives the infant a new environment from which it has just emerged.

However, Dr. Frederick Leboyer thinks infants can smile, and showed them doing it in a film at Hunter College Auditorium, where he discussed his method of "birth without violence."

The French pediatrician said he began trying to alleviate the trauma of birth eight years ago, when, he said, he realized that the baby is not an object.

Continued on page 22

'Double Trouble' Diabetes Theory Expounded

Continued from page 1

suppression with somatostatin results in marked improvement in hyperglycemia without the massive doses of insulin otherwise needed, and even blocks the postprandial hyperglycemia these patients would usually experience.

"One cannot help but be impressed," he added, "with the potential therapeutic efficiency that a safe and practical glucagon-suppressing drug might offer in the control of diabetic hyperglycemia."

How immediate are the prospects for such clinical application?

Dr. Unger believes it would be "the height of irresponsibility" to suggest at the present time that safe therapy aimed at correction of both of the double troubles of hyperglycemia and hypoinulinemia would offer more than conventional methods of glucose regulation directed solely at insulin delivery.

"But it would be the height of nihilism not to hope, and the height of indifference not to find out," he emphasized.

During his lecture, Dr. Unger introduced affectionately as "Mr. Glucagon"—outlined the following description of the glucoregulatory functions of glucagon and insulin:

The unique biologic opposition of the two hormones endows the alpha-cell, beta-cell unit with the ability to vary glucose flux in a manner physiologically appropriate to prevailing circumstances while maintaining extracellular glucose concentrations within "remarkably narrow limits," irrespective of these circumstances.

Insulin is the hormone of glucose efflux from the extracellular space and glucagon normally acts as the dominant regulator of glucose influx even though insulin also restrains glucose influx.

Influx and Efflux

If the concentration of glucose in extracellular fluid is to remain unchanged when glucose flux changes, it is obvious that the influx and efflux must remain equal. At the time of violent exercise, for example, the efflux into muscle rises and the influx must increase proportionately to keep glucose concentration constant. This takes place, partly under the influence of a marked increase in glucagon, with the result that hypoglycemia is prevented and the central nervous system is assured of enough glucose.

Conversely, food intake increases exogenous glucose influx and glucose efflux must increase proportionately if hyperglycemia is to be avoided. This is achieved by a rise in insulin secretion.

Dr. Unger pointed out that such a balancing continues throughout the lifetime of the normal, healthy person. The extracellular fluid glucose concentration stays within narrow limits except when critical injury or other serious stress demands an increase to maintain cerebral glucose delivery, and then nature's control system turns down insulin secretion and turns up glucagon secretion to maintain stress hyperglycemia as long as the threat persists.

The "double trouble" hypothesis of

diabetes, he said, "assigns to pancreatic and/or extrapancreatic glucagon the role of co-mediator of the full disorder" in carbohydrate metabolism.

According to this concept, insulin deficiency accounts for the underutilization of glucose but glucagon excess—relative or absolute—causes most of the glucose overproduction.

Whether diabetic hyperglycemia is suppressible by insulin is a question that cannot yet be answered definitively, Dr. Unger commented. In there more than one type of diabetic hyperglycemia? Or could it be that—as in the case of dogs with alloxan diabetes—"the hyperglycemia derived from the gastrointestinal tract during underinsulination responds to insulin, while hyperglycemia of pancreatic origin is insulin-insensitive?"

Explanation Offered

But it is clear, he said, that most overt diabetes have a "double trouble" and that in most young juvenile-type diabetes the basal hyperglucagonemia is only partially corrected by high insulin doses. In others, insulin in extremely high doses is ineffective.

One explanation could be that the massive doses of insulin may be causing a high rate of glucose efflux "without sufficient sustained suppression of glucose influx during meals." And in

appropriate mealtime hyperglycemia with a fixed level of circulating exogenous insulin "may be causing bursts of hyperglycemia."

Dr. Unger posed yet another question: "Is there an intrinsic defect affecting both the beta-cell and the alpha-cell, both of which originate from a common anlage?" The fact that diabetic alpha-cell secretion can be reduced by insulin, he cautioned, does not necessarily signify that its alpha-cell hyperactivity is secondary to insulin lack.

Biotheologic Inference

Although the investigator said that the possible long-term benefits of sustained metabolic normalization of diabetes cannot be predicted by scientific evidence now available, he offered what he called "biotheologic inference" as a basis for guessing:

• "Nature's efforts are seldom purposeless."

• "Nature, through the coordinated secretion of insulin and glucagon, makes a formidable, and in most humans a remarkably successful, effort to avoid hyperglycemia throughout life."

• "These humans virtually always escape microangiopathy, whereas those humans in whom nature fails in its efforts to avoid hyperglycemia usually develop microangiopathy."

Computer-Simulated Pulsed Arterial Flow

Investigations by Johns Hopkins Applied Physics Laboratory scientists on complex and little-understood patterns of pulsating fluid flow in modeled arterial branches are shedding new light on the role of hemodynamics in developing arterial malfunctions and atherosclerosis. Here, a momentarily frozen-in-time view of the computer-simulated pulsed arterial flow in a symmetric bifurcation is revealed by a velocity vector field (where small lines represent magnitude and direction of local flow). At junction inlet, the flow is not distributed evenly in the channel; some of the flow is even at a virtual standstill (represented by the lack of velocity lines shown by small dots). At the centerline of the channel, the flow is stronger, but it diminishes as one goes downstream.

WHO Deplores Growing Traffic in Plasma

Medical Tribune World Service

GENEVA—Delegates from more than 130 countries attending the World Health Assembly here have been alerted to the disadvantages of growing traffic in plasma originating in developing countries.

The traffic, which carries health risks for both donors and recipients of plasma substances, was described in a document issued at the meeting by the W.H.O. director-general, Dr. Halfon Mahler.

The practice, which was first noted

by the League of Red Cross Societies, originated about 10 years ago in Central and South America and has recently spread to Asia and Africa.

Financially, it shows attractions for the unscrupulous, the report said. In some, a liter of plasma may be bought from a donor for about \$1 or \$2, compared with a cost of \$20-40 in developed countries.

"In some centers now being operated, single or double plasmapheresis may be repeated up to several times

Saudi Arabia Opens Doors Wide to MDs

Medical Tribune World Service

GENEVA—With about \$14 billion to spend on health care development during the next five-year plan, Saudi Arabia is opening the doors wide to U.S. and European physicians.

"We estimate that we will need about half a million people, including doctors, nursing staff, and health technicians, to bring our medical system to the level we have planned," Dr. Samir Islam, director of personal health services and hospitals, Riyadh, said.

Dr. Islam, here to attend the World Health Assembly, pointed out that Saudi Arabia is at present one of the countries where native-born physicians are in the minority. There is heavy reliance on U.S. and European medical staff in the cities, particularly in government hospitals, while in the provinces most of the doctors are Arabic-speaking Muslims from Syria, Egypt, and Pakistan.

100 New Hospitals Planned

"We plan to build 100 hospitals over the next five years," Dr. Islam said. "Even if we achieve only half that target, we are still facing an enormous problem of staffing."

With the treasury avash with petrodollars, Saudi Arabian salary levels are likely to be competitive with U.S. rates. In government service, a medical officer gets roughly \$1,000 a month base salary, plus a further \$800-\$1,000 compensation allowance for his estimated loss of earnings away from private practice. Other allowances include housing, education grants, and paid home leave.

Saudi Arabia's first medical school, which is under the sponsorship of London University School of Medicine, opened in Riyadh three years ago. A second, sponsored by Johns Hopkins University, is scheduled to open soon in Jeddah and a third school later. The three together are expected to graduate no more than 100 physicians a year when they are in full operation.

"So we are interested in getting U.S. and Europeans to set up also in private practice in our country," Dr. Islam told MEDICAL TRIBUNE.

Any doctor who wants to set up his own clinic or private hospital can probably qualify for a 50 per cent loan of interest and spread over 10-13 years, he added.

per week on the same donor," Dr. Mahler said.

In undernourished plasma donors especially, this may result in a deficiency of proteins or other essential plasma components, impair the body's immune defenses, and provoke iron deficiency and anemia, it was noted.

For the recipients of at least some of the plasma derivatives, it has been established that there is a higher risk of contracting diseases, particularly hepatitis, when the plasma is from a paid source, the report said.

Chemonucleolysis for Disk Disease—Pros and Cons

Medical Tribune Report

SAN FRANCISCO—Two separate studies of chemonucleolysis for the treatment of discogenic back pain indicated that it has something to offer, but also that it could produce complications and poor results on a large scale.

The properly selected failed laminectomy patient can approach chemonucleolysis feeling he has "everything to gain and nothing to lose," Dr. Henry W. Apfelbach told the American Academy of Orthopaedic Surgeons. He is attending orthopaedic surgeon at Lake Forest Hospital in Lake Forest, Illinois.

Chemonucleolysis for disk disease is so easy and takes so little time "it could be improperly used as so widely and indiscriminately used as to produce a horrendous number of complications and poor results," Dr. Brian H. Huncke told the Academy.

Previous Surgery

Dr. Huncke said his group's experience with patients who had previously undergone surgery "is quite similar to that of Dr. Apfelbach."

"Previous surgery, if productive of 12 or more months of relief for a patient—followed by a recurrence—does not contraindicate chemonucleolysis," Dr. Huncke said. "Previous surgery, if not productive of any relief at all, usually precludes success with chemonucleolysis."

Dr. Huncke said the taking of a de-

were "excellent" in 24 patients, "good" in 10, "fair" in seven, and "poor" in nine.

"[Chemonucleolysis] appears to be especially useful in those patients who obtain a good result following their initial laminectomy for one year or more," Dr. Apfelbach said. "This group of patients appears to have a prognosis following chemonucleolysis similar to that of the patient with a herniated disc in a 'virgin' back."

Dr. Apfelbach added that the use of chemonucleolysis avoids open surgery and its accompanying high morbidity.

stilled and thorough history is the most critical element of patient selection, and that patients are carefully selected, medico-legal and compensation problems are not significant.

Whether a patient has had previous surgery or not, Dr. Huncke said, any evidence of perineural, epidural or intradural scarring "mitigates against chemonucleolysis."

Mysography Used

Dr. Huncke said his group used myelography particularly to rule out arachnoiditis and other forms of scarring. Electromyography was used to detect possible polyneuritis. He called discography "an essential part of the procedure."

But Dr. Huncke warned, "Unless you can obtain valid and reliable electro-diagnostic studies, they are probably worse than useless."

Dr. Apfelbach said his group felt that if myelography had been done in the patients who failed to benefit from chemonucleolysis, it would probably have substantiated a diagnosis of arachnoiditis in some of them.

75% of Arthritics Held Capable of Satisfactory Sex Life

Medical Tribune Report

NEW ORLEANS—Three-fourths of all patients with rheumatoid arthritis are capable of leading satisfactory sex lives, the American Rheumatism Association meeting was told here, and physicians were urged to explain to them how they can do so.

If a practitioner feels uncomfortable in discussing the subject, he should refer the arthritic man or woman for counseling.

These points were made by Richard Rogal, Ph.D., of the Ruchman Las Anigos Hospital in Los Angeles.

Arthritics, he said, "have the same need to be loved physically and emotionally as the rest of humanity."

"There is a temptation for the practitioner who is uncomfortable about discussing sex just to hand out the pamphlets," Dr. Rogal said. More guidance is required, he emphasized.

He said only about one-fourth of arthritis patients have physical incapacities severe enough to rule out sexual acts completely. The others should be advised as to how they can perform satisfactorily despite their handicaps. "Patients with sex problems often question their value as mates, mothers, fathers, breadwinners, and homemakers," he continued. "Young people are especially vulnerable. They start to wonder whether anybody ever will love them the way they are."

House Witnesses Clash on Federal Role in Malpractice Crisis

Medical Tribune Report

NEW YORK—Should the Federal Government intervene in the "malpractice crisis" that has now hit virtually every state in the union?

Recent hearings held here by the House Subcommittee on Health and the Environment, chaired by Representative Paul G. Rogers (D-Fla.), got a different answer from almost every witness, so the group indicated it will continue to weigh the question as it gathers more evidence and calls on other concerned parties.

As one witness, Gary Turnford of the New Jersey State Society of Anesthesiologists, put it, the problem is clearly "local in nature, but national in scope," and the committee must go much further in investigating key issues before reaching a decision, according to Rep. Rogers.

"Still unresolved is the questionable ability of the Argonaut Insurance Company, which 'infected the entire state with the whole mess,' according to Alfred Triel, who represented the New York Trial Lawyers Association. Indeed, the testimony of Lawrence

C. Baker, newly appointed president of the company that until July 1 insured some 30,000 New York doctors, was full of surprising disclosures. Mr. Baker testified that, while Argonaut took in \$35,000,000 in premiums last year, only \$24,000,000 has been paid out in claims since the company came to the state in 1974.

He added that the company would lose an additional \$69,000,000 associated with claims over the next 20 years, but, he said, Argonaut is responsible for only 54 per cent of that sum, or about \$37,000,000.

Because he became president of Argonaut only a few weeks before the hearing and joined the company in January, Mr. Baker could not answer questions about Argonaut's reasons for entering and leaving the state so abruptly, nor could he explain why the company recently rescinded its proposed 300 per cent rate increase rather than show its books to the State Insurance Department.

To learn more about the workings of Argonaut, Rep. Rogers indicated that he would call other members of

the Teledyne Financial Corporation, a California conglomerate that owns the company, to testify at a later date.

In his testimony earlier in the day, Dr. Ivan L. Bennett, President of the New York County Medical Society, told the committee, "We have to do something to discourage the needless somnolence and x-rays that doctors are perceiving to defend themselves from patients. At the same time, we have to create an atmosphere in which new and innovative approaches to treatment can be tried, even though they might fail."

In addition, Dr. Robert Hicks, testifying for the New York State Medical Society, pointed out the irony of the situation: "It isn't the uneducated or elderly physician that suffers most from malpractice claims," he said, "but the highly exposed, outstanding specialists, who often see patients in the worst condition."

"The majority of such claims, he added, are not based on negligence, but on a poor result or technical difficulty from a procedure that disappointed the patient."

index

CLINICAL NEWS NOTE: "When you look at your bank account, you look at the bottom line, and I think that's what we have to do with this Leboyer 'birth without trauma' procedure. If in fact Leboyer can show 100,000 deliveries this way with better results, then I think there's nothing we can do but to take a real solid look at it." (Dr. Ervin E. Nichols, see page 22.)

Medicine: pgs. 1, 2, 3, 5, 6, 7, 9, 12, 13, 18, 19, 20, 23
Saudle opening doors to American and European M.D.s 2
Most arthritics can have satisfactory sex lives 3
Enterobacter on salad can be hazard to the debilitated 8
New TB guidelines suggest less isolation 8
Malpractice rates stifling in Europe except for Britain 9

Surgery: pgs. 1, 3, 6, 8, 18, 23
Labeled antihypertensive antibody does in infant studies 18

Pediatrics:
A diet of college football rookies show neck damage on x-ray 23

Ob/Gyn: pgs. 1, 23
"Birth without trauma" of Leboyer causes doubts 1
Smoking mothers-to-be increase risks to unborn 23

Research:
Genetic engineering and the role of the public 5

feature index

Current Opinion 5
Editorial Capsules 11
Editorials 11
Letters to Tribune 11
One Man's View of Medicine 18
Medicine on Stumps 18
Doctors' Debate 19
Editor's Journey 21
Sports Report 23
Innate Medicine 23

Medical Tribune

CRIS WOODBURY, Ph.D.
General Manager
HARRY HENSON, Ph.D.
Editor-in-Chief
R. S. CHIRKIN, Ph.D.
Executive News Editor
WILLIAM PRATT
Art Supervisor
NINA PRATT
Picture Editor
ARTHUR M. SACKLER, M.D.
International Publisher
Advisory Board
JOHN ABRAHAM, M.D.
TUDOR H. MARRASMAN, M.D.
BRANDON LOWN, M.D.
ALBERT B. SALT, M.D.
ALTON SCHWARTZ, M.D.
ROBERT A. CHASE, M.D.
LUD G. ROLLER, M.D.

880 Third Avenue, New York, N.Y. 10022
Telephone: 421-4600

Circulation entitled by Business Publications Audit of Circulation, Inc.

MEDICAL TRIBUNE is published each Wednesday except on April 30, July 4, July 20, Oct. 3, Oct. 29 and Dec. 31.

Medical Tribune, Inc., 880 Third Avenue, New York, N.Y. 10022. Controlled circulation postage paid at New York, N.Y. 02360.

Subscription \$25.00, Student \$7.50.

PUNCTURE A MYTH

**"NO OTHER ANOREXICANT
IS AS EFFECTIVE
AS AMPHETAMINESTM"**

Study III ^a	Mean Cumulative Weight Lost by End of Week 5 (lb)
Sanorex (30 patients)	~14.5
d-amphetamine (32 patients)	~12.5
placebo (31 patients)	~10.5

...the influence of these differences for humans is uncertain.

2. *How do you feel about the way you are being treated?*

Physical containment barriers b

Continued on page 16

Fiscal Crisis Worsens at Italian Hospitals

Medical Tribune World Service

ROME—Italy's long-plagued hospital system is suffering additional financial and clinical setbacks as drug companies, hospital suppliers, and bio-medical groups refuse to meet urgent demands for items ranging from heart valves to oxygen for incubators.

Despite allocation of emergency government funds to assist Italy's 1,300 financially strapped hospitals, doctors and hospital administrators often must dig into their own pockets to satisfy suppliers who demand immediate payment.

Recently at Rome's "Umberto Primo" polyclinic Pediatrics and Obstetrics Division 30 premature infants nearly ran out of oxygen for their incubators. Repeated urgent requests to the supplier were rejected because of past debts running into thousands of dollars. Two thousand liters of oxygen were delivered only when the hospital's secretary signed a personal check for \$1,500.

Purchase Complaints

Dr. Gaetano Azzolina, a cardiologist at Massa Carrara Hospital, complained that he has occasionally had to buy heart valves for operations on a personal basis because the supply houses have refused to furnish them in the face of enormous past debts.

Dr. Azzolina, who has in the past denounced Italy's hospital system, said that in addition to lacking heart valves, many hospitals are short of electrocoagulators and hemodialysis filters, and even gauze, bandages, and x-ray film.

"The sick funds, with their mad organizational structures, are the cause of this rot," Dr. Azzolina said.

He noted that the hospitals are owed about \$6.5 billion by Italy's sick funds, headed by I.N.A.M., which insures about 70 per cent of the population. But because of a lack of payment, the hospitals are often forced to turn to banks for cash at high interest rates.

"Now the banks have no additional funds to give to the hospitals: if the hospitals were normal businesses they would have to declare bankruptcy despite enormous credits," Dr. Azzolina said.

Debts Go Unsettled

A spokesman for A.S.T.R.U., an association of 140 bio-medical and surgery supply companies, said that the hospitals owe about \$400 million for past services. Despite constant pressure on both the hospitals and the government, none of the debts have been settled.

An emergency act by the Italian government in January authorized about \$3 billion in bank credits to pay off the accrued debt. However, slow government machinery and a reluctance on the part of banks to underwrite the credits have further delayed the urgently needed cash flow.

"If it has not failed yet, the Italian hospital is nevertheless completely discredited, both with the banks and the supply houses," Dr. Azzolina noted.

Drug wholesalers have also declared a "state of agitation" towards the hospitals. With debts of millions of dollars

they have threatened to cut off supplies to both hospitals and pharmacies until action is taken.

Vincenzo La Russa, president of the Regina Elena Hospital of Milan, said that much of the situation is caused by poor government control, length of hospital stay and lack of hospital beds.

Mr. La Russa said that in 1972 alone, I.N.A.M. spent about \$4.7 billion for 36 million insured persons—more than the United Kingdom spent for all of its insured national program with 50 million people.

"The average Italian hospital stay per person is 16.5 days, reaching a time length unknown to all other Western European countries," he said.

Despite this over-stay in hospitals, in Milan alone there are only 13,500 beds in public hospitals and 3,200 in private hospitals. With a population of over two million, Milan should have 21,000 hospital beds, he noted.

Misuse of Beds Cited

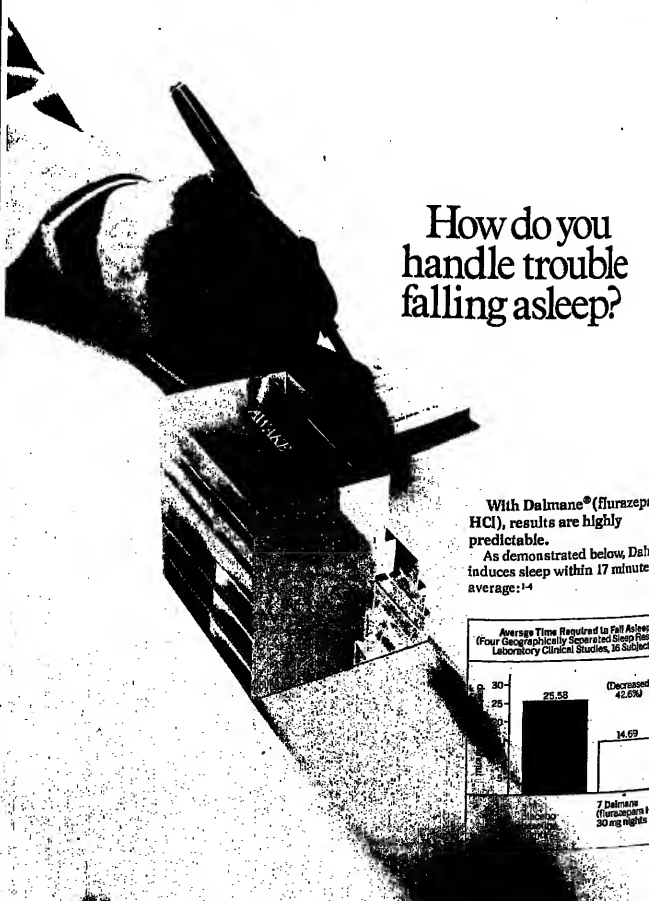
Bad management and poor usage of available space misuses 4,500 existing hospital beds, he added.

Problems plaguing Milanese hospitals, where for example at the 271-bed Sesto San Giovanni Hospital only 23 patients are admitted each day and dozens of other patients are turned away or placed on a waiting list, are found throughout Italy. In one extreme case, a patient earmarked for surgery at

a hospital in Palermo had to bring a bed from home before being admitted.

Lack of cash on hand does not only affect the public hospital system's activities with drug companies and medical supply houses. Green grocers, meat companies and bakers have also complained of lack of payment.

While the situation is reaching a critical point, the Italian government headed by Premier Aldo Moro is struggling to put through a sanitation reform program. A first step towards an overhaul of the present health system—which dates to the end of the 19th century—was taken earlier this year with creation of a regional financial control approach for the public hospitals. Under the program, national funds are distributed by region, based on population and need, and are directly overseen by local government.



How do you handle trouble falling asleep?

With Dalmane® (flurazepam HCl), results are highly predictable.

As demonstrated below, Dalmane induces sleep within 17 minutes, on average.*

Condition	Average Time (min)
Control	25.58
Decreased (42.6%)	14.59

*7 Dalmane (flurazepam HCl) 30 mg nights

Director-General Points WHO Toward a Pragmatic Course

Medical Tribune World Service

GENEVA—World Health Organization strategies are likely to be less traditional and more pragmatic, Dr. Halfdan Mahler, director-general, made clear to the World Health Assembly.

In what looked like a veiled critique of his predecessor, Dr. Mircellino Candau, he said that W.H.O. planning since the war has been based on "unselective" transfer of technologies from the more technically developed to the poorer countries.

This model of health development has proved difficult to apply and even counterproductive, he declared.

Dr. Mahler said that conventional

medical wisdom has been projected as the only wisdom throughout the world, and that there has been too much emphasis on scientific accuracy and technical proficiency.

"It is wise," he asked, "to devote so much effort to what is often only a trivial discerning of technical knowledge rather than to widening the range and increasing the number of beneficiaries through the practical application of what is already known?"

"The very sophistication of today's medical wisdom," he said, "tends to prevent that individual and community participation without which health often becomes a technological mockery."



© 1975, Medical Tribune, Inc.



... brief summaries of editorials or comments in current medical and scientific journals.

No Teratogenic Effect

"In a follow-up study of 50,282 pregnancies and the offspring, malformations identified before the first birthday, or at death before the fourth birthday, were identified in 3248 children (6.5 per cent). A total of 1870 children exposed in utero to meprobamate or chloridazepoxide were compared with 48,412 children who were not. No significant differences were found either overall or in specific categories; rates were also similar when exposures occurred during the first trimester or at other times during pregnancy. Deaths (stillbirth to the fourth birthday) occurred in 2227 children (4.4 per cent), and there was no evidence that antenatal exposure to either drug increased the death rate. Finally, as judged by mental and motor scores at the age of eight months, and intelligence quotient scores at four years, there was no evidence that the drugs cause brain damage.

"In this follow-up study there was no evidence that either meprobamate or chloridazepoxide, taken at any time during pregnancy, is teratogenic. This observation applied to malformations in general, to malformations that from embryological considerations could be expected to develop either early or late during gestation. Cardiac malformations, in particular, were not associated with early exposure. . . .

"In addition to being unable to confirm a teratogenic effect, we found no evidence that the drugs are related to stillbirth or neonatal, infant or childhood mortality. . . .

"Our findings differ from those reported by Milkovich and van den Berg (N. Engl. J. Med. 291:1268, 1974). . . . Perhaps the most important difference between the two studies was that we controlled the analyses for potential confounding by a wide variety of risk factors for having a malformed child. The comparison groups analyzed by Milkovich and van den Berg consisted of mothers who had documented anxiety. Potential confounding from factors other than anxiety was not controlled. If the relevant factors had been controlled, it is possible that they could have eliminated the associations. An alternative possibility is that the associations reported by Milkovich and van den Berg could have been due to chance. (Article, Stuart C. Hart, et al., N. Engl. J. Med. 292:726, April 3, 1975)

Pancreas Center at LSU

Medical Tribune Report

NEW ORLEANS—The first national center for the study of cancer of the pancreas is being established here at the Louisiana State University Medical Center, it was announced by Dr. Allen A. Copping, Medical Center chairman. It will be funded by the National Cancer Institute, which has made a commitment of \$14,500,000 for the next five years.

And for those with trouble staying asleep or sleeping long enough. . .

... sleep research laboratory clinical studies prove: Dalmane decreases number of nighttime awakenings and increases total sleep time.*

Dalmane (flurazepam HCl) is relatively safe, seldom causes morning "hang-over"

Dalmane is generally well tolerated. The usual adult dose of 30 mg should initially be lowered to 15 mg for the elderly and debilitated, to help preclude oversedation, dizziness or ataxia. Appraisal of possible risks is suggested before prescribing.

REFERENCES:

1. Karaman, J., Williams, R.L., Smith, J.R.: The sleep laboratory in the investigation of sleep and sleep disturbances. Scientific exhibit at the 124th annual meeting of the American Psychiatric Association, Washington, DC, May 3-7, 1971.
2. Frost, J.D. Jr.: A system for unimultaneously analyzing sleep. Scientific exhibit at the 24th annual Clinical Convention of the American Medical Association, Boston, Nov 26-Dec 2, 1970, and at the 42nd annual scientific meeting of the Aerospace Medical Association, Houston, Apr 26-29, 1971.
3. Vogel, G.W.: Data on file, Medical Department, Hoffmann-La Roche Inc., Nutley, NJ.
4. Dement, W.C.: Data on file, Medical Department, Hoffmann-La Roche Inc., Nutley, NJ.
5. Data on file, Medical Department, Hoffmann-La Roche Inc., Nutley, NJ.

Before prescribing Dalmane (flurazepam HCl), please consult complete product information, a summary of which follows:

Indications: Effective in all types of insomnia characterized by difficulty in falling asleep, frequent nocturnal awakenings and/or early morning awakening. In patients with recurring insomnia or poor sleeping habits; and in acute or chronic medical situations requiring restful sleep. Since insomnia is often transient and intermittent, prolonged administration is generally not necessary or recommended.

Contraindications: Known hypersensitivity to flurazepam HCl.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. Caution against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Use in women who are or may become pregnant only when potential benefits have been weighed against possible hazards. Not recommended for use in persons under 15 years of age. Though physical and psychological dependence have not been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage.

Precautions: In elderly and debilitated, initial dosage should be limited to 15 mg to preclude oversedation, dizziness and/or ataxia. If combined with other drugs having hypotensive or CNS-depressant effects, consider potential additive effects. Employ usual precautions in patients who are severely depressed, or with latent depression or suicidal tendencies. Periodic blood counts and liver and kidney function tests are advised during repeated therapy. Observe usual precautions in presence of impaired renal or hepatic function.

Adverse Reactions: Dizziness, drowsiness, light-headedness, tingling, ataxia and falling have occurred, particularly in elderly

You can depend on the efficacy of

Dalmane®
(flurazepam HCl)

One 30-mg capsule h.s. = usual adult dosage (15 mg may suffice in some patients).
One 15-mg capsule h.s. = initial dosage for elderly or debilitated patients.

for insomnia

Objectively proved in the sleep research laboratory:

- sleep within 17 minutes, on average
- sleep with fewer nighttime awakenings
- sleep for 7 to 8 hours, on average, with a single h.s. dose



ROCHE LABORATORIES
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

New TB Guidelines Suggest Less Isolation

By THOMAS BULGER
Special Tribune Correspondent

MONTREAL—New guidelines for the prevention and detection of tuberculosis, representing a significant departure from traditional practices, have been prepared by the American Thoracic Society's scientific assembly on tuberculosis.

The new guidelines are, in general, more liberal than previous ones, proposing less isolation and follow-up of infected individuals who undergo an adequate course of chemotherapy, and generally limiting screening programs to those who are thought to be at special risk of infection.

"Twenty years of experience has demonstrated that, given adequate chemotherapy, tuberculosis is a curable disease," Dr. John Sbarbaro, chairman of the scientific assembly on tuberculosis, told the International Conference on Lung Diseases here. He said that new guidelines are merely recognition of that fact, and are intended to bring about the most effective application of the resources available to fight tuberculosis, consistent with present knowledge, therapeutic capabilities, and prevalence rates.

4 General Areas of Concern

The recommendations encompass four general areas of concern: long-term institutional care, the discharge of patients from medical surveillance, screening programs for health care and educational institutions, and investigation of tuberculosis contacts. While the parent body, the American Thoracic Society, has not yet made the recommendations official, they are expected to do so within the next three months.

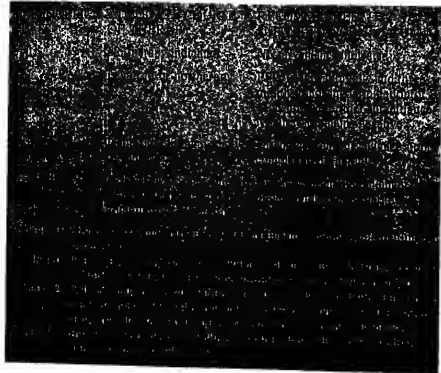
Highlights of the assembly's conclusions and recommendations follow:

Long-term institutional care.

Since it has been well established that tuberculosis patients receiving adequate chemotherapy are most unlikely to transmit infection, they should be treated in the mainstream of medical care, the assembly said. A small number of patients will require long-term care, usually for reasons unrelated to their tuberculosis, but this can be accomplished safely and efficiently in the long-term care facilities presently in use for patients with other medical or social conditions. Some states have laws restricting tuberculosis patients from these facilities, thereby requiring the maintenance of separate chronic care institutions for this disease, but such restrictions are not justified, according to the assembly.

"In the era of modern chemotherapy, tuberculosis should be treated in whatever setting most appropriately meets the needs of the patient and the community. Some patients can be treated entirely at home. Others may require a short period of hospitalization in a general hospital, followed by ambulatory care. Still others may require longer-term care in an institution, mainly because of other medical and social problems.

"But the fact of tuberculosis should not be the primary determinant of the locale of care, nor should it act as a constraint. . . . A separate, categorical system for tuberculosis care is obsolete."



Discharge of patients from medical surveillance.

Although frequent relapses are a striking feature of untreated tuberculosis, making periodic evaluations of individuals with the disease important, the assembly said, the accumulated evidence now indicates that adequate therapy not only eradicates the bacilli originally, but makes relapse unlikely. Therefore, the long-term surveillance originally necessary is no longer so, and indeed, dilutes the anti-tuberculosis effort by straining limited resources. The funds are more fruitfully spent ensuring that the original therapy is adequate, the assembly concluded.

Surveillance never worked well anyway. Most relapses were detected when patients entered the standard medical care system with respiratory system complaints, or as incidental findings on physical examinations for other purposes. Prior to discharge from medical surveillance, treated individuals should be educated about the symptoms that might be associated with a relapse, and the importance of their prompt evaluation by a physician.

The table below (above, etc.) summarizes the present definitions of diagnostic categories for tuberculosis, adequate treatment and the new surveillance recommendations for each.

Institutional screening programs.

The assembly's statement of this subject redefines appropriate screening procedures for in-patients, out-patients, and employees in the general hospital, schools, kindergartens, nurseries and day care centers. The most significant change concerns the desirability of periodic screening programs for children.

Several pediatric societies have recommended repeating skin tests every two years, but the assembly said that this is a waste of resources; the yield for screening school-age children is generally too low to be practical—less than .05 per cent—as these groups are not at significant risk.

Each child should have one skin test at the earliest point at which he enters the health care system, and then should be retested only when he is thought to be at risk of infection; for example,

when he has symptoms consistent with tuberculosis, is known to have been exposed, or lives in an area in the community of unusually high risk.

The most important and efficient means of protecting children is not repeated testing, but the identification and provision of chemotherapy to infected adults, the assembly said.

Investigation of tuberculosis contacts.

The likelihood of transmission of the tubercle bacillus depends upon the characteristics of the individual with tuberculosis (source case), of his contacts, and of the environmental air shared between them. Significant questions include:

Source case: Is he receiving chemotherapy? Can tubercle bacilli be isolated from his sputum? Does he cough, and especially, is he unable or unwilling to cover his cough?

Contact: What was the cumulative time of contact? At what physical proximity?

Environmental air: How large was the volume of air in common to the source case and contact? What were the circumstances of ventilation, recirculation, or filtration of the air?

Using the answers to these and similar questions, contacts may be assigned to either low or high risk groups with then recommends the following guidelines for limiting the extent of contact investigation:

Evaluate all contacts who present themselves and request study; no one who presents himself in this manner can appropriately be turned away.

Initiate investigation with higher risk contacts; if there is no evidence among this group of recent transmission of infection, it is appropriate not to extend the investigation.

If there are data to suggest recent contagion within the higher risk group, the investigation should be extended. To reasonably ensure that the investigation has identified the significant lower risk contacts would be evaluated until the level of infection detected approximates the ambient levels of infection within that immediate community.

Clue to Dystrophy?



The muscle structure of a common roundworm may give investigators clues to understanding muscular dystrophies, according to Stanford scientists. Normal muscle, above, has protein filaments in regular parallel patterns. But the muscle of certain mutant nematodes that have been paralyzed by early exposure to high temperatures has thin filaments set at all angles, randomly.

Raw Salad Bacteria Seen Health Peril to Debilitated

Medical Tribune Report

NEW YORK—Opportunistic infections from Enterobacteriaceae on raw salad vegetables may pose a serious threat to debilitated persons, Donald T. Monsey told the 75th annual meeting of the American Society for Microbiology.

Mr. Monsey, research microbiologist at the U.S. Army Natick Development Center, Massachusetts, isolated *Escherichia coli*, *Klebsiella pneumoniae*, *Enterobacter faecalis*, *E. agglonensis*, *E. cloacae*, *Escherichia coli*, and *Citrobacter* from samples of large-scale feeding systems and local retail outlets.

The Natick team also isolated *Pseudomonas aeruginosa*, a special hazard to burn patients. "Healthy individuals should have no problems with any of these organisms," Mr. Monsey said, though they are often eaten with uncooked vegetables.

The study showed that aerobic plate counts and coliforms "had no particular association with the presence of pathogens," and that samples from large-scale feeding systems had greater concentrations of coliforms and fecal coliforms than those from local markets. Mr. Monsey reported no *Salmonella* organisms.

Coauthors were Gerald Silverman, Ph.D., and Barbara Boutebor.

Ovarian Carcinoma Study

Medical Tribune Report

BETHESDA, MD.—Physicians have been asked to refer patients for controlled trials on the use of radiotherapy and chemotherapy following surgery for ovarian carcinoma of all stages.

The study, conducted by the National Cancer Institute's Medicine Branch at the N.I.H. Clinical Center here, is designed to maximize the benefits of available treatment.

Postoperative patients under 65 who have received no therapy other than surgery are eligible for the study.

Malpractice Rates Stiffening In Europe, Except in Britain

Medical Tribune World Service

PARIS—Malpractice insurance rates in Europe are still low, by American standards, but they are beginning to rise. The rate structure in Great Britain represents a notable exception to the upturn.

The best bargain is offered by the Medical Defense Union, a prosperous mutual insurance society with 77,000 members in Britain and many other parts of the world. The Union provides sky's-the-limit coverage for a flat rate of about \$50.

Rates are sharply higher in France, Germany, and Switzerland. In contrast to the British system, insurers on the continent have a sliding scale according to risk. For a cardiologist in Paris, unlimited cover costs about \$100. But for a physician in a high-risk category, like surgery, anesthesiology, gynecology, or psychiatry, the premium goes up to about \$1,000.

Higher in Germany, Switzerland

In Germany and Switzerland, where most medical insurance is on a straight commercial basis, coverage is less generous and premiums still higher. The amount of insurance is on a graded scale, averaging about \$500,000, and the premium for a physician in an exposed category runs to about \$2,000.

A British society maintains an attitude of studied nonchalance about malpractice suits, which contrasts with the uneasiness about the future displayed by French and German insurers.

To some extent, the low U.K. tariff appears to reflect the legendary piety of the British patient. But a M.D.U. spokesman, Dr. John Wall, also explained that the society adopts a policy that tends to keep it out of expensive lawsuits.

"If a claim is sound, we settle with-

out argument, and the courts know this," Dr. Wall said.

A further constraint on litigation is the fact that contingency fees are considered unethical by the British legal profession.

On the technical side, Dr. Wall pointed out that the British flat-rate system for all members, irrespective of degree of individual risk, also keeps insurance rates down.

"If you separate firemen from other types of driver, you invite a higher insurance premium, and the same goes for a surgeon or gynecologist compared to a general practitioner," he said. "We merge high and low risks into a single rate."

At present, the M.D.U. handles about 350 claims a year and pays out on average about £500,000 annually (about \$1,100,000). Since this represents about one-third of the total income from subscriptions, there are no financial problems.

But in the Montmartre district of Paris, where most French insurance companies have offices—at the bottom of the hill away from the rattle-dazzle—physicians and jurists have recently been holding urgent talks about the level of premiums.

"At present, a French surgeon can get unlimited cover for around 3,000, 4,000 francs, or about \$1,000," a spokesman for one of the biggest mutual societies, the picturesquely named Le Sou Médical, explained. "That is less than it costs him to get third-party risk on his Ferrari, but we are losing money on the deal."

Set up in the early 19th century, the society originally charged its members a rate of 1 sou a day, which, at the then rate of 20 sous in the franc, worked out at 18 francs a year.

"Those happy days are gone, and now we are in a very different position,

the L.S.M. official said. "The physician in France is losing his sacrosanct image, and patients are much more aggressive about making legal claims. The French courts also take inflation into account, and so we are seeing a leap in the scale of damages awarded."

Constraints of the type that operate in Britain also hold down the size of awards in France, but the judgments are nevertheless getting steadily bigger. "We saw a figure of 1,000,000 francs awarded for the first time two years ago," the official commented, "and now

the awards are up to around 3,000,000 francs. Any day we expect to see the first judgment to top 4,000,000, which would be the equivalent of a \$1,000,000 award in the United States."

To make the books balance, rates for the high-risk groups should now be doubled. This was explained by actuaries to the committee of physicians that runs Le Sou Médical. But even though such premiums are tax-deductible, the rates are not likely to shoot up so quickly, for psychological reasons.

The Pain Phone

When a telephone prescription for pain relief is necessary or convenient, you can call in your order for Empirin Compound with Codeine in 45 of the 50 states! That includes No. 4, which provides a full grain of codeine for more intense, acute pain.

The exceptions: Alaska, Arizona, Maine, Oregon, Rhode Island, and the District of Columbia

EMPIRIN[®] COMPOUND & CODEINE

No. 4 codeine phosphate* (64.8 mg) gr 1

No. 3 codeine phosphate* (32.4 mg) gr 1/2

*Each tablet also contains aspirin gr 3/24, phenacetin gr 2 1/2, caffeine gr 1/2.

*Warning—may be habit-forming.



W. L. Burroughs, Wallingford, Conn.
Manufactured by Parke-Davis
Baltimore, Md. Codeine 27100

Leg-Squeezing Device Said to Reduce Postoperative Thrombosis by 80%

Medical Tribune World Service

PARIS—An 80 per cent reduction in the incidence of postoperative thrombosis has been achieved by use of a leg-squeezing device during surgery, a London bloemgaer said here.

V. C. Roberts, Ph.D., of King's College Hospital Medical School, also told the 10th Congress of the European Society for Experimental Surgery that a 90 per cent reduction has been achieved in patients with malignant disease, who are particularly susceptible to thrombosis in the early postoperative period.

Dr. Roberts said that these results, comparable to those with systematic heparin administration, have not been associated with dangerous side effects.

He noted that 30 per cent of postoperative patients over the age of 40 show isotopic evidence of deep-vein thrombosis, 15 per cent show clinical evidence, and 0.5 per cent experience pulmonary thrombosis.

The determination of an 80 per cent reduction in thrombosis, in a series of more than 200 patients, was by use of

1125

fibrinogen, and there was a com-

parable

reduction

in the clinical

signs

of thrombosis

in the leg veins,

Dr.

Roberts

reported.

Whether

this

necessar-

ily means

a comparable

reduction

in pulmonary

thrombosis

remains

to be

shown,

he said.

"We

assume

from

some

evidence

that

when

heparin

reduces

deep-vein

thrombosis

it also

reduces

pulmonary

embolism,

but

it would

take

a tremendous

number

of cases

to

demonstrate

such

a reduction,"

he

said.

Dr.

Roberts

related

that

the

squeez-

ing

device

was

developed

following

research

showing

that

passive

activation

of the

calc

muscle

during

surgery

could

increase

both

the

pulsatility

and

mean

level

of venous

flow

in the

legs.

He

had

a

co-worker,

Dr.

L. T. Cotton,

then

developed

pneumatic

splints,

or

leg-

gins,

connected

to a

power

source

that

uses

compressed

gases

and

ambient

air

to

squeeze

both

legs

simultaneously

every

120

seconds.

مكة ابن النفل



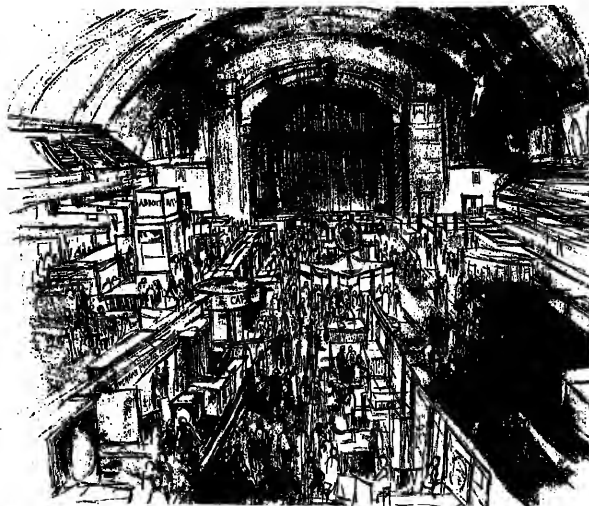
Vioform®-Hydrocortisone
(hydrocortisone hemisuccinate and hydrocortisone)

ADVERSE REACTIONS
Few reports include: Hypersensitivity; local burning, irritation, pruritus. Discontinuation of therapy may cause atrophy. Rarely, topical corticosteroids may cause atrophy if application when used for long periods.

C I B A

might offer in the control of diabetic hyperglycemia," (Dr. R. H. Unger, American Diabetes Association meeting; see page 1.)

A Psychiatrist's Wife Catches the Spirit of the AMA Convention



The exhibition hall.

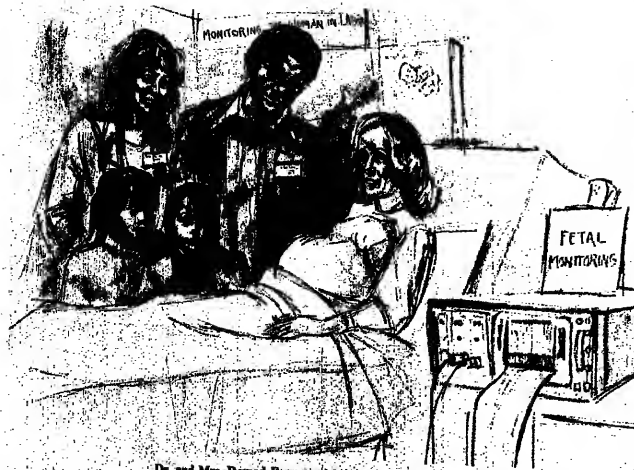
IDA LIBBY DENGROVE, the wife of a psychiatrist, Dr. Edward Dengrove, is the talented artist through whose eyes millions of television viewers across the nation followed the proceedings during the Mitchell-Stans trial in New York. Her past sketches illustrated what she was narrating on the Today show and evening news program. But she found it "utterly fantastic" and the most exciting thing she has ever done. Recently, Mrs. Dengrove, her husband, and one of their best friends, a medical school graduate, attended the American Medical Association's annual convention in Atlantic City. Long active in the medical community, Mrs. Dengrove has served as arts and hobbies chairman for the past several years, helping other doctors' wives to develop their artistic talents. Some of her sketches of the convention and its participants.



Dr. Edward Dengrove and son, Dr. Robert Dengrove.



Dr. and Mrs. Donald Haselhuber of Camp Hill, Pa.



Dr. and Mrs. Romed Ferrer and family from Glen Burne, Md.



On the left, Dr. J. Whittig (left) of Gainesville, Fla., and Sanford Chodos, of Boston University School of Medicine. Dr. Stephen Lockey (lower left) of Lancaster, Pa.



Physician registration.

مكة ابن القفل

LIBRIUM® AT WORK: (chlordiazepoxide HCl)

B.W.: A CASE IN POINT*

PATIENT: 51-year-old male, Caucasian; married; one son, 12 years old; occupation: sales manager.

FAMILY HISTORY: Father hypertensive; cause of death, possible MI; grandmother diabetic.

PAST HISTORY: Prior to current illness exercised regularly, tennis 2-3x/week; smokes heavily (over 2 packs/day). Remainder of medical history noncontributory. States he enjoyed good health in past—no known history of hypertensive, cardiovascular or pulmonary disease.

RECENT HISTORY: Hospitalized eight weeks previously with diagnosed acute MI.

CLINICAL COURSE: Uneventful recovery; discharged 26 days following hospital admission. Four weeks of gradually increasing activity at home. Complete evaluation scheduled prior to returning to work.

CURRENT FINDINGS: About 15 lbs overweight; admits to high fat and carbohydrate intake. Upon examination, the patient was apprehensive; markedly reactive to all somatic sensations. Concern expressed about transient headaches being "stroke" symptoms. Physical examination normal. EKG showed normal sinus rhythm with typical evolution of abnormalities consistent with healing of the infarct.

MEDICAL MANAGEMENT: In addition to medical regimen, Librium 10 mg t.i.d.; continued for 2 months to relieve anxiety.

COMMENTS: Despite excellent response to medical regimen and objective evidence of full recovery, return to full normal activity inhibited by patient's excessive anxiety. Antianxiety medication reduced this to manageable levels.

*Data on file, Medical Department, Hoffmann-La Roche Inc., Nutley, New Jersey. Although this is an actual case history, not all cases of organic cardiovascular disease can be expected to have the same response to therapy.

IN THE ANXIOUS PATIENT
WITH ORGANIC CARDIOVASCULAR
DISEASE

WHEN CLINICAL ANXIETY INTERFERES WITH THERAPEUTIC PROGRESS

During cardiac convalescence, the patient's anxieties are often allayed through your reassurance and counseling and his family's encouragement and support. In some patients, however, excessive anxiety can interfere with progress. When this occurs, Librium (chlordiazepoxide HCl) may be a beneficial adjunct to medical management.

Librium offers a high degree of antianxiety effectiveness and is used as an adjunct to primary cardiovascular medications. It also provides a wide margin of safety. In proper dosage, Librium usually helps calm the overanxious patient without unduly interfering with mental acuity or general performance. Initial therapy should be limited to the smallest effective dosage, particularly in the elderly and debilitated patient, to preclude development of ataxia or over-sedation. And Librium therapy should be discontinued when anxiety has been reduced to tolerable levels.

Librium is used concomitantly with certain medications of other classes of drugs, such as cardiac glycosides, diuretics, antihypertensive agents, vasodilators and anticoagulants. While rare reports of adverse effects on blood coagulation in patients receiving oral anticoagulants and Librium have been noted, clinical studies have not established a cause and effect relationship.

WHEN CLINICAL ANXIETY INTERFERES WITH THERAPEUTIC PROGRESS

LIBRIUM®
chlordiazepoxide HCl/Roche
5 mg, 10 mg, 25 mg capsules
FOR ALL THE RIGHT REASONS

Before prescribing, please consult complete product information, a summary of which follows:

Indications: Relief of anxiety and tension occurring alone or accompanying various disease states.

Contraindications: Patients with known hypersensitivity to the drug.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-acting drugs, caution patients against hazardous occupations requiring complete mental alertness (e.g., operating machinery, driving). Though physical and psychological dependence have rarely been reported on recommended doses, use caution in administering to addiction-prone individuals or those who might increase dosage; withdrawal symptoms (including convulsions), following discontinuation of the drug and similar to those seen with barbiturates, have been reported. Use of any drug in pregnancy, lactation or in women of child-bearing age requires that its potential benefits be weighed against its possible hazards.

Precautions: In the elderly and debilitated, and in children over six, limit to smallest effective dosage (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as needed and tolerated. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic effects, particularly in use of potentiating drugs such as MAO inhibitors and phenothiazines. Observe usual precautions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., excitement, stimulation and acute rage) have been reported in psychiatric patients, and hyperactive aggressive children. Employ usual precautions in treatment of anxiety states with evidence of impending depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been reported very rarely in patients receiving the drug and oral anticoagulants; causal relationship has not been established clinically.

Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionally observed at the lower dosage ranges. In a few instances sycope has been reported. Also encountered are isolated instances of skin eruptions, edema, minor menstrual irregularities, nausea and constipation, extrapyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosis), jaundice and hepatic dysfunction have been reported occasionally, making periodic blood counts and liver function tests advisable during protracted therapy.

Supplied: Librium® Capsules containing 5 mg, 10 mg or 25 mg chlordiazepoxide HCl. Librium® Tablets containing 5 mg, 10 mg or 25 mg chlordiazepoxide.



Roche Laboratories
Division of Hoffmann-La Roche Inc.
Nutley, New Jersey 07110

Moderate Position on PSROs Prevails at AMA Convention

Continued from page 1

activities, on grounds that it was unconstitutional. At the A.M.A. meeting several delegates, among them Dr. Michael Smith, President, Louisiana State Medical Society, hailed the ruling as a turning point in the fight against governmental interference in medical practice, and an indication that the time was ripe for P.S.R.O. repeal.

However, Dr. Russell Roth, past president of the A.M.A., said that the injunction might be reversed on appeal. And he warned that if P.S.R.O. were killed, another federal law would "inevitably" take its place, which "could be even worse than the one we have to deal with now."

Nevertheless, a good deal of discussion could be heard in the corridors of the convention, if not on the House of Delegates floor, expressing hopeful speculation that the Hoffman ruling might lead to a Supreme Court decision on a pending suit of the American College of Surgeons against H.E.W., that would find P.S.R.O. unconstitutional in its entirety.

Some delegates also mentioned the well-known funding woes of P.S.R.O., and wondered whether the plan might not soon die a quiet death from fiscal malnutrition.

Official Policy About the Same

In the meantime, official A.M.A. policy and recommendations, as approved by voting on resolutions, stayed pretty much the same as before.

A number of resolutions introduced by Dr. Frank A. Rogers of California and supported by delegates from Louisiana and Oklahoma, that would have had the A.M.A. mount a campaign for the repeal of P.S.R.O. and advise doctors not to comply with existing programs, were turned back by comfortable margins.



Continued from page 5

understanding the processes which cause them, and of learning to deal with their consequences.

The scientific methodology I have discussed here today promises to further such a basic understanding of genetics in ways that have not been possible previously. It also provides the prospect of constructing specifically-designed microbes able to produce a wide variety of scientifically and medically important substances.

While it is essential for the public to be assured that experiments seeking knowledge in this area and in other areas of basic science are carried out safely, I believe that it would be contrary to the public interest if the initiative of the scientific community in raising issues of experimental safety should lead to a decision by the public to direct the scientific course of such investigations.

In arguing for his resolutions, Dr. Rogers said that "delaying tactics will not pay off." Local peer review, he declared, "is just a temporary expedient. We should all know by now that once P.S.R.O.s are in place, peer utilization boards will simply be pre-empted, and local regulation will be supplanted by federal regulation."

But most delegates seemed to agree with the report of the A.M.A. special reference committee, chaired by Dr. George H. Mills of Hawaii and assigned to hear testimony on the P.S.R.O. matter, that "repeal does not present a realistic alternative at this point." Instead the committee recommended a "policy statement" reaffirming last year's stand—which, it was emphasized, "does not preclude individual state associations from electing non-participation." This statement was passed.

Its pragmatic nature was noted by Dr. Max H. Parrott, newly-installed A.M.A. president, in his inaugural address.

"The A.M.A. has become more aggressive of late, as instanced by our first lawsuit against the federal government, the suit over the utilization-review regulations," he said. "We need to be even more aggressive. But our effectiveness depends not only on the will to act, but on the capacity to act."

Complete non-cooperation with P.S.R.O. at this time would be politically unwise, possibly illegal, and certainly contrary to the A.M.A.'s "humanistic belief in the individual patient and his quality of care," Dr. Parrott stated.

While delegates voted to counsel physicians to continue abiding by P.S.R.O. laws, to monitor their effects and lobby for amendments that would guarantee local autonomy, they made a distinction between voluntary peer review, which is nearly universal, and mandatory procedures, which are in actual operation in less than half of the areas of the nation designated by H.E.W.

The House overwhelmingly supported a resolution that called for physicians to serve on voluntary boards of their own creation without pay, but to require "compensation when providing their time and expertise" to review boards involving the government or other third parties.

Up to 3,100,000 Estimated to Suffer Ankylosing Spondylitis

Continued from page 1

These admittedly "rather extraordinary statements" were made to the American Rheumatism Association Section of The Arthritis Foundation by Dr. Andrei Calin and James F. Fries. They said important benefits would follow increased awareness and screening because AS symptoms respond readily to relatively safe, non-steroidal anti-inflammatory agents.

Their finds grew out of an investigation made in an effort to establish the actual prevalence of AS among the 7 per cent of the Caucasian population of the United States having the histocompatibility antigen HLA-W27.

Twenty-four hundred healthy blood donors were examined in the Stanford study. Among these Drs. Calin and Fries found 120 with the W27 marker. They were matched by race, sex and age with 190 controls who are W27 negative. Seventy-eight positive subjects cooperated, as did 126 controls.

History of Back Pain

Twenty-two (28.2 per cent) of the positives reported a history of back pain, compared with 11 (8.7 per cent) of the controls. Of the 22 with W27, 59 per cent had sleep disturbances, 82 per cent morning stiffness and 73 per cent relief with exercise—symptoms of AS.

None of the controls with back pain had any of these symptoms, and their back pain was diagnosed as mechanical, rather than inflammatory as in the W27 group.

Rather than subject the asymptomatic controls to x-ray, the Stanford physicians randomly selected 36 control films from patients who had under-



Opening session of the A.M.A. House of Delegates.

gone radiological investigation such as barium studies and pycnograms. These films were reviewed blindly along with the films of 19 W27 subjects with back pain. Fourteen of the W27 group were found to have definite AS by the New York criteria for radiological changes. Not one of the controls met the criteria.

Of the 78 cooperating W27 subjects, 27 per cent of the females and 30 per cent of the males had back pain. In the radiological test, 8 females (16.7 per cent) and 6 males (20 per cent) had AS.

Dr. Calin said the expected prevalence of AS in the W27 positive community is 2 per cent for males and 0.2 per cent for females. "Instead," he continued, "20 per cent of our male subjects and 17 per cent of the women studied had definite and symptomatic AS. It is possible that these figures represent an underestimate. There were further subjects, symptomatic for back pain, with a history suggesting inflammatory disease, but unavailable for clinical or radiological investigation. Furthermore, the exclusion of individuals with known ankylosing spondylitis continues to underplay these results."

He cited other studies with conclusions which agree with the Stanford suggestion that there is a prevalence of AS in the W27 community of 20 per cent—a figure 10 times the expected frequency in males and 80 times in females.

"If 20 per cent of W27 positive subjects have undiagnosed AS and W27 is present in 7 per cent of the population, then undiagnosed AS is present in 1.4 per cent of the population," Dr. Calin and Fries suggested.

Dr. Fries noted that many women may think their AS symptoms are menstrual cramps. He noted that the disease tends to be milder in women, whose outside joints are more involved. A reluctance in subject women of child-bearing age to radiation may result in the diagnosis being missed frequently, he added.

AS in 20% of W27-Positive Men

Dr. Calin said the expected prevalence of AS in the W27 positive community is 2 per cent for males and 0.2 per cent for females. "Instead," he continued, "20 per cent of our male subjects and 17 per cent of the women studied had definite and symptomatic AS. It is possible that these figures represent an underestimate. There were further subjects, symptomatic for back pain, with a history suggesting inflammatory disease, but unavailable for clinical or radiological investigation. Furthermore, the exclusion of individuals with known ankylosing spondylitis continues to underplay these results."

He cited other studies with conclusions which agree with the Stanford suggestion that there is a prevalence of AS in the W27 community of 20 per cent—a figure 10 times the expected frequency in males and 80 times in females.

"If 20 per cent of W27 positive subjects have undiagnosed AS and W27 is present in 7 per cent of the population, then undiagnosed AS is present in 1.4



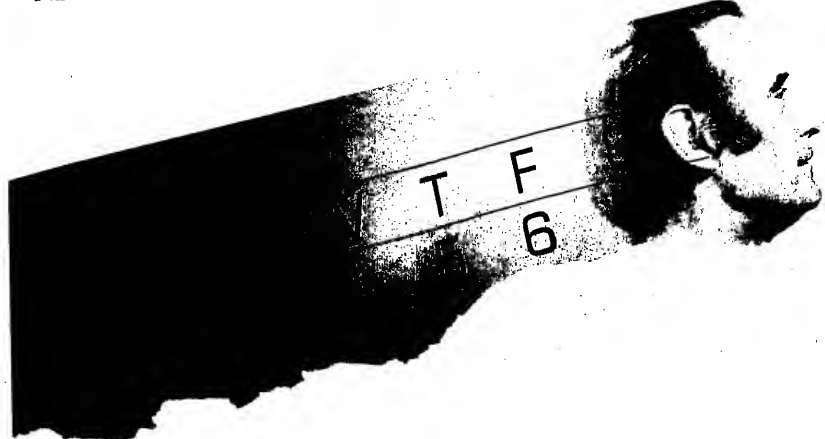
"Scalpel, please."

© 1973, Medical Tribune, Inc.

MELLARIL® (THIORIDAZINE)

TABLETS: 10 mg, 15 mg, and 25 mg thioridazine HCl, U.S.P.

IN CLINICALLY SIGNIFICANT DEPRESSIVE NEUROSIS— RESULTS OFTEN SEEN IN A WEEK



Mellaril can often help you give patients with depressive neurosis relief within a week. In 14 double-blind studies of four weeks duration, 339 patients with depressive neurosis received Mellaril. In these studies, 55% of the overall improvement was observed by the end of the first week, and a total of 293 patients (86%) improved during the four weeks.*

With Mellaril, patients often have an end to such symptoms as insomnia, G.I. symptoms, irritability, dejection, and hopelessness before they have a chance to become entrenched.

*Data on file at Sandoz Pharmaceuticals.

Mellaril (thioridazine) short-term therapy of moderate to marked depression with variable degrees of anxiety in patients with depressive neurosis

Before prescribing or administering, see Sandoz literature for full product information. The following is a brief summary:

Contraindications: Severe central nervous system depression, comatose states from any cause, hypersensitive or hypotensive heart disease of extreme degree.

Warnings: Administer cautiously to patients who have previously exhibited hypersensitivity reactions (e.g., blood dyscrasias, jaundice, leukopenia, agranulocytosis, etc.). Mellaril is contraindicated in patients with phenothiazine sensitivity. Phenothiazines are capable of potentiating central nervous system depressants (e.g., anesthetics, opiates, alcohol, etc.) as well as atropine and phosphorus trichloride, cardiac conduction benefit versus risk in these severe disorders. During pregnancy, administer only when the potential benefits exceed the possible risks to mother and fetus.

Precautions: There have been infrequent reports of leukopenia and/or agranulocytosis and decreasing leukocytes in elderly patients. Anticholinergic medication should also be considered. Fluctuating responsiveness observed primarily in patients receiving larger than recommended doses, in patients characterized by diminished visual acuity, blurred vision, and impairment of night vision, the possibility of its occurrence may be reduced by remaining within recommended dosages. Administer cautiously to patients participating in activities requiring complete mental alertness (e.g., driving), and increase dosage gradually. Orthostatic hypotension is more common in females than in males. Do not use effective in treating drug-induced hypotension. Administer thioridazine in excess of 300 mg should be used only in severe neuropsychiatric conditions.

Adverse Reactions: Central Nervous System—Drowsiness, especially with large doses, early in treatment; infrequently, postural hypotension and other autonomic symptoms; rarely, nocturnal

confusion, hyperactivity, lethargy, psychotic reactions, restlessness, and headache. Autonomic Nervous System—Dryness of mouth, blurred vision, constipation, nausea, vomiting, diarrhea, nasal stuffiness, and palpitations. Endocrine System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Other: Thioridazine is contraindicated in patients with phenothiazine sensitivity. Cardiovascular System—ECG changes (see Cardiovascular Effects below). Other—Rare cases described as painful swelling.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Adverse Reactions: Persistent and sometimes irreversible tardive dyskinesia, characterized by rhythmic involuntary movements of the tongue, face, mouth, or jaw (e.g., protrusion of tongue, puffing of cheeks, puckering of mouth, chewing movements) and sometimes of extremities may occur on long-term therapy or after discontinuation of therapy. The risk being greater in elderly patients on high-dose therapy, especially females, if symptoms appear, discontinue all therapy. Syndrome may be masked if treatment is reinstituted; dosage is increased, or anticholinergic agent is withheld. Fine tremulous movements of tongue may be an early sign, and fine tremulous movements of tongue may be an early sign, and fine tremulous movements of tongue may be an early sign.

Other: Thioridazine is contraindicated in patients with phenothiazine sensitivity. Cardiovascular System—ECG changes (see Cardiovascular Effects below). Other—Rare cases described as painful swelling.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.

Effects below: Other—Rare cases described as painful swelling. The following reactions have occurred with thioridazine: ECG changes, leukopenia, agranulocytosis, and peripheral edema. Thioridazine should be considered. Autonomic Nervous System—Galactorrhea, breast engorgement, amenorrhea, inhibition of lactation, and peripheral edema.



SANDOZ PHARMACEUTICALS, EAST HANOVER, NEW JERSEY 07930

can do it. You appear to be proud of yourself.

Medical Tribune Report

Dexamethasone Very Effective

Dr. Lawrence Levine and Ms Mary McGuire also were associated with Dr. Kantrowitz, and Dr. A. H. Tashjian Jr. with Dr. Robinson.

1. Langford HG: Hypertension. In Conn HF (ed): *Current Therapy*. Philadelphia, The WB Saunders Co. 1973. p 201.

Concurrent use with rauwolfia derivatives may cause excessive postural hypotension, bradycardia, and mental depression.

Medical Testimony Report

Medical Tribune Reports

At age 11, for example, children of mothers who smoked during pregnancy

• Now that baseball's heading for Series, we keep being haunted by Iselin Gilman's characterization of Howard Cosell as "an auditory ache." We don't even have to hear to know what she means.

This monkey's jaw has been re-aligned as part of an orthodontic study at the University of Washington. The study, seeking new ways of aligning teeth by altering the structure of facial bones, is being directed by Benjamin Moffet, Ph.D., Professor of Orthodontics.